

GP-303271

INJECTION STRATEGY FOR OPERATING A DIRECT-INJECTION
CONTROLLED AUTO-IGNITION FOUR-STROKE INTERNAL
COMBUSTION ENGINE

ABSTRACT OF THE DISCLOSURE

Low load operating point for a direct-injection controlled auto-ignition four-stroke internal combustion engine is reduced without compromising combustion stability through a split-injection control operative to introduce a first fuel fraction, air and exhaust gases into the combustion chamber during an intake event and a second fuel fraction into the combustion chamber during a compression event.